C3460-1

FIBER ORGANON

Formerly Textile Organon

Volume 62, No. 1 ☐ January 1991

A publication of *Fiber Economics Bureau, Inc.*

Highlights

- Capacity Utilization Review...begins on page 3.
- Annual Shipment Summary...see page 10.
- Worldwide Net Available Supply...begins on page 14.

SHIPMENTS:

In December, total manufactured fiber shipments reached 681 million pounds, 7% below the 731 million pounds shipped in November and 2% below the 694 million pounds shipped in December 1989.

December shipments of synthetic (noncellulosic) filament yarn fell 2% to 351 million pounds and staple+tow fell 12% to 294 million pounds.

Contributing to the decrease in shipments over the previous month were nylon staple+tow down 22% or 18 million pounds, polyester staple+tow down 14% or 25 million pounds and nylon industrial yarn down 4 million pounds or 12%.

Year-to-date domestic shipments of manufactured fiber are down 3% and exports are up 9%.

TABLE 1:
TOTAL U.S. MANUFACTURED FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

ITEM	1990 DEC	1990 NOV	% CHG 12/90-11/90	1989 DEC	% CHG 12/90-12/89	YEAR TO DATE 1990	YEAR TO DATE 1989	% CHG YTD 1990-1989
ARTIFICIAL (CELLULOSIC)								
YARN	17.8	15.3	*+16.3*	19.3	*-7.8*	206.7	219.0	*-5.6*
RAYON STAPLE	19.1	22.3	*-14.3*	21.8	*-12.4*	302.6	354.4	*-14.6*
TOTAL ARTIFICIAL (CELL.)	**36.9**	**37.6**	*-1.9*	**41.1**	*-10.2*	**509.3**	**573.4**	*-11.2*
SYNTHETIC (NONCELL.)								
YARN+MONOFILAMENT								
NYLON - INDUSTRIAL	26.3	30.0	*-12.3*	31.8	*-17.3*	341.2	364.5	*-6.4*
- CARPET	84.0	83.8	*+0.2*	81.3	*+3.3*	986.0	967.7	*+1.9*
- TEXTILE [a]	29.9	32.3	*-7.4*	32.7	*-8.6*	369.1	399.9	*-7.7*
POLYESTER - INDUSTRIAL	31.9	30.1	*+6.0*	32.5	*-1.8*	361.3	365.3	*-1.1*
- TEXTILE [a]	72.3	66.0	*+9.5*	59.8	*+20.9*	768.3	804.0	*-4.4*
OLEFIN	106.3	117.0	*-9.1*	94.1	*+13.0*	1420.5	1248.5	*+13.8*
TOTAL YARN	**350.7**	**359.2**	*-2.4*	**332.2**	*+5.6*	**4246.4**	**4149.9**	*+2.3*
STAPLE+TOW+FIBERFILL								
NYLON	63.3	80.9	*-21.8*	74.0	*-14.5*	974.4	978.5	*-0.4*
ACRYLIC+MODACRYLIC	45.0	39.5	*+13.9*	37.1	*+21.3*	500.6	537.4	*-6.8*
POLYESTER	154.4	179.8	*-14.1*	181.3	*-14.8*	2098.1	2354.8	*-10.9*
OLEFIN	31.1	33.5	*-7.2*	28.3	*+9.9*	410.3	377.4	*+8.7*
TOTAL STAPLE	**293.8**	**333.7**	*-12.0*	**320.7**	*-8.4*	**3983.4**	**4248.1**	*-6.2*
TOTAL SYNTHETIC (NONCELL.)	**644.5**	**692.9**	*-7.0*	**652.9**	*-1.3*	**8229.8**	**8398.0**	*-2.0*
TOTAL MANUFACTURED FIBER	**681.4**	**730.5**	*-6.7*	**694.0**	*-1.8*	**8739.1**	**8971.4**	*-2.6*
TOTAL SHIPMENTS DIVIDED AS -								
DOMESTIC SHIPMENTS [b]	624.3	672.8	*-7.2*	645.1	*-3.2*	8193.2	8468.8	*-3.3*
EXPORTS [c]	57.1	57.7	*-1.0*	48.9	*+16.8*	545.9	502.6	*+8.6*

a. Includes low denier industrial yarn.
b. Includes olefin exports.
c. Excludes olefin exports.

January 1991

Fiber Organon

A Monthly Review

CONTENTS

Features

Capacity Utilization Review 3 - 9
- Review of Production, Producing Capacity & Capacity Utilization 3
- Summary of Annual Production 4
- Summary of Producing Capacities 5
- Graph 1: Synthetic (Noncellulosic) Fiber Production, Capacity & Capacity Utilization 6
- Summary of Capacity Utilization Rates 7
- Graph 2: Acrylic+Modacrylic Staple+Tow Capacity & Production 7
- Graph 3: Nylon Carpet Yarn Capacity & Production 8
- Graph 4: Polyester Textile Yarn Capacity & Production 8
- Graph 5: Polyester Staple+Tow Capacity & Production 8
- Production of Synthetic (Noncellulosic) & Artificial (Cellulosic) Fiber as a Percentage of Total Manufactured Fiber Production 9
- Producing Capacity of Synthetic (Noncellulosic) & Artificial (Cellulosic) Fiber as a Percentage of Total Manufactured Fiber Capacity 9

Annual Shipment Summary 10
- Graph 5: Total Manufactured Fiber Production & Shipments 10
- Total Manufactured Fiber Shipments 10

Worldwide Net Available Supply 14 - 17
- 1989 Manufactured Fiber Production, Import, Export & Net Available Supply by Country 14 - 15
- Mill Consumption of Manufactured Fiber, Cotton & Wool in Selected Countries 16 - 17

Industry Regulars

Total U.S. Manufactured Fiber Shipments 1

Monthly U.S. Manufactured Fiber Data 11 - 13
- Imports by Country of Origin 11
- Imports by Fiber 12
- Exports by Fiber 13

Selected U.S. Fiber Data 18 - 19
- Annual Data 18
- Monthly Data 19

FIBER ECONOMICS BUREAU, INC.
President & Editor
Rosemarie D. Frick

Publishing Headquarters:
Fiber Economics Bureau, Inc.
101 Eisenhower Parkway
Roseland, NJ 07068
U.S.A.
Telephone: (201) 228-1107
Facsimile: (201) 228-7598

ISSN 0040-5132

Copyright © 1991
Fiber Economics Bureau, Inc.

FIBER ORGANON is published monthly. All rights reserved. This booklet may be reproduced in part if credit is given.

Subscription Rates -
(payable in U.S. dollars with order):

ITEM	U.S.A.	OTHER
Annually (1 year only)	300.00	400.00
Schools & Nonprofit	150.00	400.00
Single Issues:		
May	100.00	150.00
June	200.00	250.00
September	150.00	200.00
December	100.00	150.00
All Others	50.00	75.00

Issues are sent by 1st class mail to U.S. subscribers and by airmail to foreign subscribers.

CAPACITY UTILIZATION REVIEW

***Editor's Note** : This issue features production, producing capacity and capacity utilization in the industry from 1980 to 1990. Capacity utilization rates are based on production and capacity sizes. Thus, a utilization rate can be raised by an increase in production, a decrease in capacity or a combination of these two.*

During this period, several notable trends surfaced. The growth of synthetic (noncellulosic) fiber production from 1980 (an increase of 4% by1990) and a decline of artificial (cellulosic) fiber production (a decline of 38% by 1990). During the same time, capacity for synthetic (noncellulosic) fiber remained virtually unchanged (9.8 billion pounds in 1990), while capacity for artificial (cellulosic) yarn declined by 40%.

This report presents data in six tables and four graphs: Review of Production, Producing Capacity & Capacity Utilization; Summary of Annual Production (1980-1990); Summary of Producing Capacities (1980-1990); Summary of Capacity Utilization Rates (1980-1990); Production of Synthetic (Noncellulosic) & Artificial(Cellulosic) Fibers as a Percentage of Total Manufactured Fiber Production; and Producing Capacity of Synthetic (Noncellulosic) & Artificial (Cellulosic) Fibers as a Percentage of Total Manufactured Fiber Capacity. Graphs show synthetic (noncellulosic) fiber production, capacity & capacity utilization, and also capacity & production trends of acrylic+modacrylic staple+tow, nylon carpet yarn, polyester textile yarn and polyester staple+tow.

The Review of Production, Producing Capacity & Capacity Utilization at the bottom of this page, ties the three major components of this report - production, producing capacity and capacity utilization - into one table for easy reference.

For this report, FiberEconomics Bureau **November** capacity survey data are used as the annual capacity figures. The Total Synthetic (Noncellulosic) data in this report do not include Glass Fiber or miscellaneous fibers such as spandex and saran.

TABLE 2:
REVIEW OF PRODUCTION, PRODUCING CAPACITY & CAPACITY UTILIZATION [a]
MILLION POUNDS & *PERCENT*

FIBER TYPE	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
SYNTHETIC (NONCELLULOSIC)											
PRODUCTION	7874	7985	6442	7534	7473	7564	7828	8316	8526	8516	8175
CAPACITY	9627	9696	9334	9274	9460	9558	9207	9350	9592	9673	9814
UTILIZATION (%)	*81.8*	*82.4*	*69.0*	*81.2*	*79.0*	*79.1*	*85.0*	*88.9*	*88.9*	*88.0*	*83.3*
ARTIFICIAL (CELLULOSIC)											
PRODUCTION	806	770	584	640	628	558	619	605	614	580	502
CAPACITY	909	898	895	845	845	784	709	709	713	724	541
UTILIZATION (%)	*88.7*	*85.7*	*65.3*	*75.7*	*74.3*	*71.2*	*87.3*	*85.3*	*86.1*	*80.1*	*92.8*
TOTAL MANUFACTURED FIBERS											
PRODUCTION	8680	8755	7026	8174	8101	8122	8447	8921	9140	9096	8677
CAPACITY	10536	10594	10229	10119	10305	10342	9916	10059	10305	10397	10355
UTILIZATION (%)	*82.4*	*82.6*	*68.7*	*80.8*	*78.6*	*78.5*	*85.2*	*88.7*	*88.7*	*87.5*	*83.8*

a. Does not include data for Glass Fiber, saran, spandex, Aramid after 1982 or Vinyon after 1986.

TABLE 3:
SUMMARY OF ANNUAL PRODUCTION
MILLION POUNDS

YEAR	ARTIFICIAL (CELLULOSIC) FIBERS						TOTAL ARTIFICIAL (CELLULOSIC)
	FILAMENT YARN+MONOFIL			STAPLE+TOW			
	RAYON	ACETATE	TOTAL	RAYON	ACETATE	TOTAL	
1980	47	309	356	443	7	450	806
1981	48	257	305	461	4	465	770
1982	33	195	228	355	1	356	584
1983	36	228	264	375	1	376	640
1984	41	198	239	389	+	389	628
1985	b	b	205	b	b	353	558
1986	b	b	215	b	b	404	619
1987	b	b	191	b	b	414	605
1988	b	b	214	b	b	400	614
1989	b	b	217	b	b	363	580
1990	b	b	206	b	b	296	502

YEAR	SYNTHETIC (NONCELLULOSIC) FIBERS														TOTAL SYN. (NON-CELL.)
	YARN+MONOFILAMENTS									STAPLE+TOW					
	NYLON+ARAMID[a]				POLYESTER			OLEFIN	TOTAL YARN	NYLON+ ARAMID[a]	POLY-ESTER	ACRYLIC+ MODACR	OLEFIN+ VINYON[c]	TOTAL STAPLE	
	IND	TEX	CARP	TOTAL	IND	TEX	TOTAL								
1980	437	466	728	1631	286	1176	1462	632	3725	727	2527	779	116	4149	7874
1981	410	461	710	1581	309	1260	1569	643	3793	752	2607	691	142	4192	7985
1982	315	354	573	1242	292	921	1213	585	3040	685	1955	624	138	3402	6442
1983	315	415	762	1492	299	1060	1359	716	3567	926	2184	671	186	3967	7534
1984	379	394	804	1577	316	884	1200	748	3525	835	2192	671	250	3948	7473
1985	343	353	819	1515	294	1027	1321	954	3790	828	2020	631	295	3774	7564
1986	339	360	907	1606	319	854	1173	1058	3837	908	2132	616	335	3991	7828
1987	364	381	952	1697	337	842	1179	1134	4010	992	2362	592	360	4306	8316
1988	377	383	968	1728	367	861	1228	1224	4180	942	2452	588	364	4346	8526
1989	373	412	974	1759	367	842	1209	1257	4225	981	2385	543	382	4291	8516
1990	335	357	980	1672	361	743	1104	1410	4186	989	2089	506	405	3989	8175

a. Data since 1982 do not include Aramid.
b. Detail withheld due to company disclosure.
c. Data for Vinyon not included after 1986.

Rayon yarn includes industrial (high tenacity) yarn and textile (regular+intermediate tenacity) yarn+monofilaments.

Acetate includes diacetate and triacetate. The acetate staple+tow data do not include tow for cigarette filtration.

Olefin includes polypropylene yarn+monofilaments+spunbonded+film fiber and polyethylene monofilaments+film fiber.

For the purposes of this report, production data for miscellaneous fibers, such as saran and spandex, are not included.

TABLE 4:
SUMMARY OF PRODUCING CAPACITIES
MILLION POUNDS

YEAR [a]	ARTIFICIAL (CELLULOSIC) FIBERS						TOTAL ARTIFICIAL (CELLULOSIC)
	FILAMENT YARN+MONOFIL			STAPLE+TOW			
	RAYON	ACETATE	TOTAL	RAYON	ACETATE	TOTAL	
1980	63	324	387	514	8	522	909
1981	52	332	384	509	5	514	898
1982	63	318	381	510	4	514	895
1983	63	268	331	510	4	514	845
1984	63	268	331	510	4	514	845
1985	b	b	269	510	5	515	784
1986	b	b	244	b	b	465	709
1987	b	b	244	b	b	465	709
1988	b	b	244	b	b	469	713
1989	b	b	232	b	b	492	724
1990	b	b	219	b	b	322	541

YEAR [a]	SYNTHETIC (NONCELLULOSIC) FIBERS														TOTAL SYN. (NON-CELL.)	GLASS FIBER
	YARN+MONOFILAMENTS									STAPLE+TOW						
	NYLON+ARAMID [c]				POLYESTER					NYLON+ ARAMID [c]	POLY-ESTER	ACRYLIC+ MODACR	OLEFIN+ VINYON [d]	TOTAL STAPLE		
	IND	TEX	CARP	TOTAL	IND	TEX	TOTAL	OLEFIN	TOTAL YARN							
1980	515	551	910	1976	400	1637	2037	900	4913	991	2759	830	134	4714	9627	1473
1981	514	553	893	1960	316	1481	1797	989	4746	1010	2839	835	266	4950	9696	1561
1982	474	513	925	1912	338	1265	1603	1038	4553	978	2700	832	271	4781	9334	1718
1983	440	494	907	1841	337	1170	1507	1099	4447	1017	2704	826	280	4827	9274	1618
1984	437	470	926	1833	342	1162	1504	1142	4479	1054	2784	807	336	4981	9460	1743
1985	437	466	965	1868	374	1097	1471	1329	4668	1067	2785	631	407	4890	9558	1769
1986	435	398	964	1797	401	1021	1422	1326	4545	1077	2491	637	457	4662	9207	1763
1987	418	404	1005	1827	399	929	1328	1402	4557	1137	2522	652	482	4793	9350	1642
1988	421	423	1053	1897	408	968	1376	1470	4743	1137	2584	642	486	4849	9592	1729
1989	420	430	1168	2018	420	900	1320	1580	4918	1150	2464	641	500	4755	9673	1822
1990	377	450	1197	2024	433	908	1341	1761	5126	1144	2578	446	520	4688	9814	1824

a. **All annual capacity data are as of November of that year.**
b. Detail withheld due to disclosure.
c. Data since 1982 do not include Aramid.
d. Data for Vinyon not included after 1986.

The data do not include acetate tow for cigarette filtration.
IND means industrial yarn and monofil, i.e., coarser than 500 denier with an Instron tenacity of 7 grams or more per denier.
CARP means bulked continuous filament yarn for carpets.

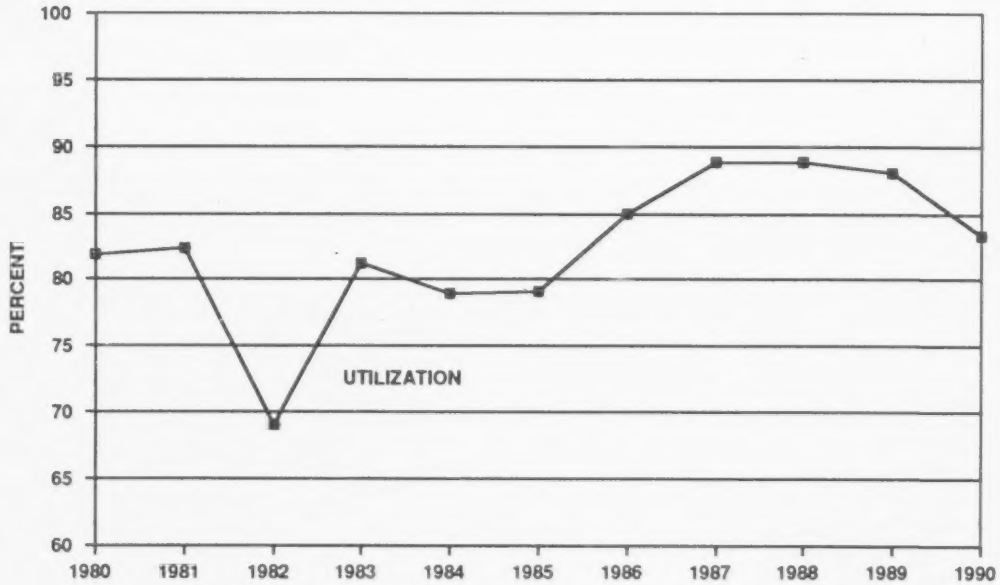
TEX means yarn & monofil for other (textile) applications. Low denier industrial yarn is tabulated here also.

Olefin includes polyethylene & polypropylene. Not included here are data on spunbonded polyethylene, monofilament bristles and film fiber used for decorative or tying ribbon, etc. Olefin monofil includes the circular and rectangular ribbon cross sections plus spunbonded polypropylene. Olefin film fiber includes slit and split or fibrillated film.

For the purposes of this report, capacity data for miscellaneous fibers, such as saran and spandex, are not included.

NOTE: **The increase in capacity for olefin yarn is due to a more thorough response and not because of additional capacity coming on stream.**

GRAPH 1:
SYNTHETIC (NONCELLULOSIC) FIBER PRODUCTION, CAPACITY & CAPACITY UTILIZATION



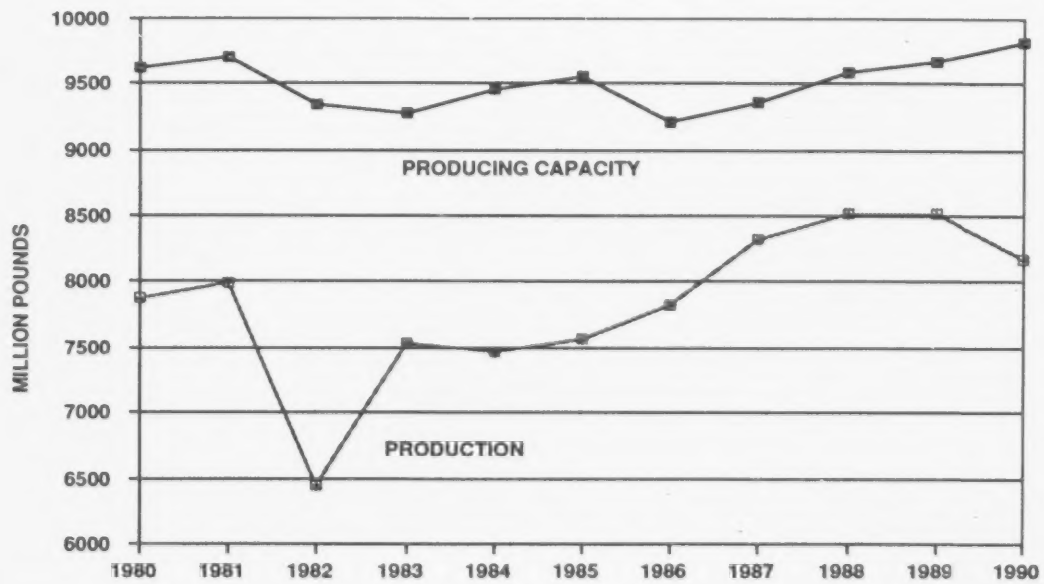


TABLE 5:
SUMMARY OF CAPACITY UTILIZATION RATES
PERCENT (%)

YEAR	ARTIFICIAL (CELLULOSIC) FIBERS						TOTAL ARTIFICIAL (CELLULOSIC)
	FILAMENT YARN+MONOFIL			STAPLE+TOW			
	RAYON	ACETATE	TOTAL	RAYON	ACETATE	TOTAL	
1980	74.6	95.4	92.0	86.2	87.5	86.2	88.7
1981	92.3	77.4	79.4	90.6	80.0	90.5	85.7
1982	52.4	61.3	59.8	69.6	25.0	69.3	65.3
1983	57.1	85.1	79.8	73.5	25.0	73.2	75.7
1984	65.1	73.9	72.2	76.3	0	75.7	74.3
1985	b	b	76.2	b	b	68.5	71.2
1986	b	b	88.1	b	b	86.9	87.3
1987	b	b	78.3	b	b	89.0	85.3
1988	b	b	87.7	b	b	85.3	86.1
1989	b	b	93.5	b	b	73.8	80.1
1990	b	b	94.1	b	b	91.9	92.8

YEAR	SYNTHETIC (NONCELLULOSIC) FIBERS [c]														TOTAL SYN. (NON-CELL.)
	YARN+MONOFILAMENTS									STAPLE+TOW					
	NYLON+ARAMID [a]				POLYESTER			OLEFIN	TOTAL YARN	NYLON+ ARAMID [a]	POLY-ESTER	ACRYLIC+ MODACR	OLEFIN+ VINYON [d]	TOTAL STAPLE	
	IND	TEX	CARP	TOTAL	IND	TEX	TOTAL								
1980	84.9	84.6	80.0	82.5	71.5	71.8	71.8	70.2	75.8	73.4	91.6	93.9	86.6	88.0	81.8
1981	79.8	83.4	79.5	80.7	97.8	85.1	87.3	65.0	79.9	74.5	91.8	82.8	53.4	84.7	82.4
1982	66.5	69.0	61.9	65.0	86.4	72.8	75.7	56.4	66.8	70.0	72.4	75.0	50.9	71.2	69.0
1983	71.6	84.0	84.0	81.0	88.7	90.6	90.2	65.2	80.2	91.1	80.8	81.2	66.4	82.2	81.2
1984	86.7	83.8	86.8	86.0	92.4	76.1	79.8	65.5	78.7	79.2	78.7	83.1	74.4	79.3	79.0
1985	78.5	75.8	84.9	81.1	78.6	93.6	89.8	71.8	81.2	77.6	72.5	100.0	72.5	77.2	79.1
1986	77.9	90.5	94.1	89.4	79.6	83.6	82.5	79.8	84.4	84.3	85.6	96.7	73.3	85.6	85.0
1987	87.1	94.3	94.7	92.9	84.5	90.6	88.8	80.9	88.0	87.2	93.7	90.8	74.7	89.8	88.9
1988	89.5	90.5	91.9	91.1	90.0	88.9	89.2	83.3	88.1	82.8	94.9	91.6	74.9	89.6	88.9
1989	88.8	95.8	83.4	87.2	87.4	93.6	91.6	79.6	85.9	85.3	96.8	84.7	76.4	90.2	88.0
1990	88.9	79.3	81.9	82.6	83.4	81.8	82.3	80.1	81.7	86.5	81.0	113.5	77.9	85.1	83.3

All percentages based on data in the tables on pages 4 and 5.

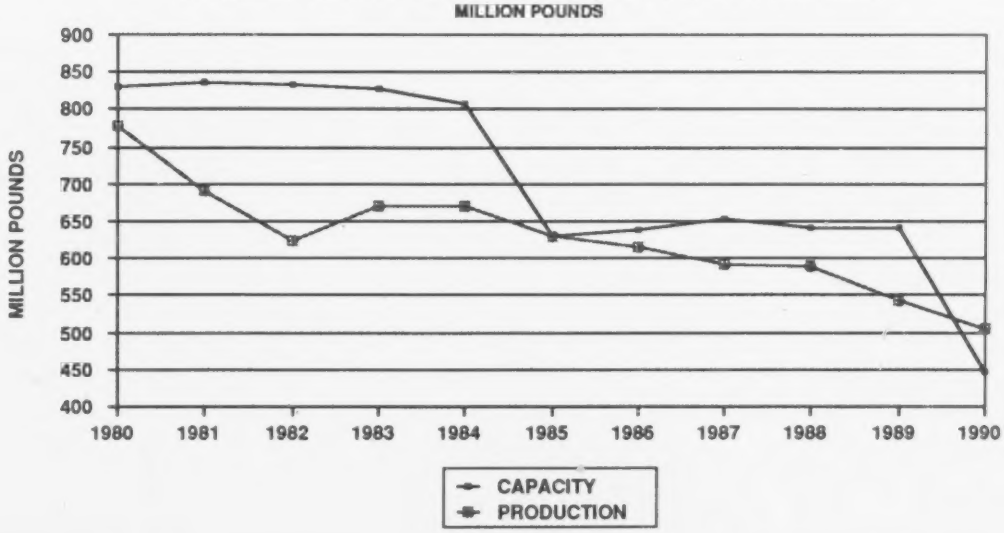
a. Data since 1982 do not include Aramid.

b. Detail withheld due to company disclosure.

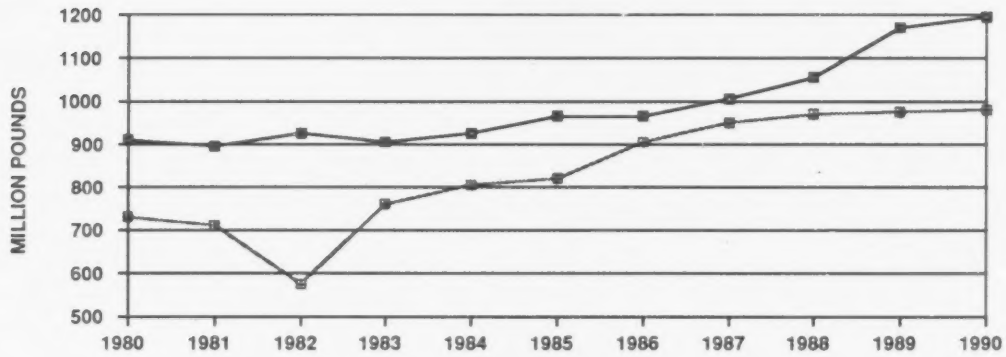
c. Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the January 1984 issue.

d. Data for Vinyon not included after 1986.

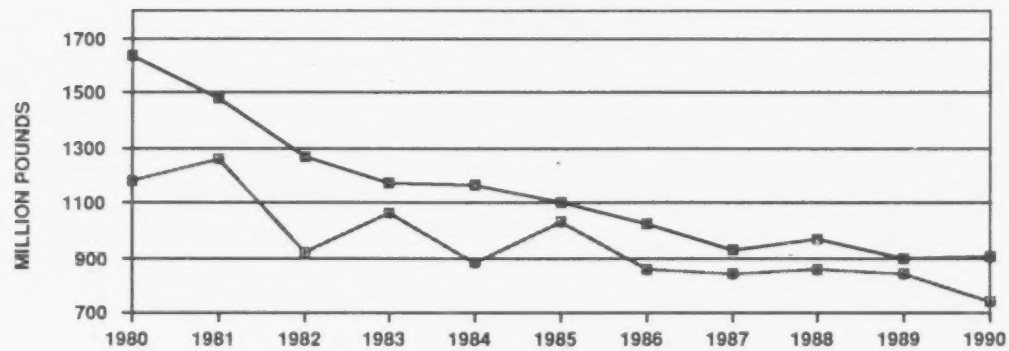
GRAPH 2:
ACRYLIC+MODACRYLIC STAPLE+TOW CAPACITY & PRODUCTION



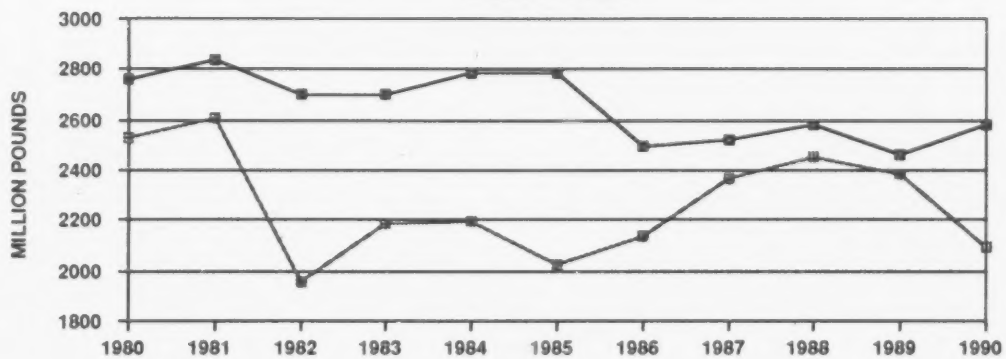
GRAPH 3:
NYLON CARPET YARN CAPACITY & PRODUCTION
MILLION POUNDS



GRAPH 4:
POLYESTER TEXTILE YARN CAPACITY & PRODUCTION [a]
MILLION POUNDS



GRAPH 5:
POLYESTER STAPLE+TOW CAPACITY & PRODUCTION
MILLION POUNDS



a. Includes low denier industrial.

CAPACITY
PRODUCTION

TABLE 6:
PRODUCTION OF SYNTHETIC (NONCELLULOSIC) & ARTIFICIAL (CELLULOSIC) FIBERS[a] AS A PERCENTAGE OF TOTAL MANUFACTURED FIBER PRODUCTION

MILLION POUNDS & *PERCENT*

YEAR	SYNTHETIC (NON-CELLULOSIC)	%	ARTIFICIAL (CELLULOSIC)	%	TOTAL MANUFACTURED FIBER	%
1980	7874	*90.7*	806	*9.3*	8680	*100.0*
1981	7985	*91.2*	770	*8.8*	8755	*100.0*
1982	6442	*91.7*	584	*8.3*	7026	*100.0*
1983	7534	*92.2*	640	*7.8*	8174	*100.0*
1984	7473	*92.2*	628	*7.8*	8101	*100.0*
1985	7564	*93.1*	558	*6.9*	8122	*100.0*
1986	7828	*92.7*	619	*7.3*	8447	*100.0*
1987	8316	*93.2*	605	*6.8*	8921	*100.0*
1988	8526	*93.3*	614	*6.7*	9140	*100.0*
1989	8516	*93.6*	580	*6.4*	9096	*100.0*
1990	8175	*94.2*	502	*5.8*	8677	*100.0*

a. Data on Glass Fiber are no longer available due to company disclosure.
The series including Glass Fiber was last published in the January 1984 issue.

TABLE 7:
PRODUCING CAPACITY OF SYNTHETIC (NONCELLULOSIC) & ARTIFICIAL (CELLULOSIC) FIBERS[a] AS A PERCENTAGE OF TOTAL MANUFACTURED FIBER CAPACITY

MILLION POUNDS & *PERCENT*

YEAR	SYNTHETIC (NON-CELLULOSIC)	%	ARTIFICIAL (CELLULOSIC)	%	TOTAL MANUFACTURED FIBER	%
1980	9627	*91.4*	909	*8.6*	10536	*100.0*
1981	9696	*91.5*	898	*8.5*	10594	*100.0*
1982	9334	*91.3*	895	*8.7*	10229	*100.0*
1983	9274	*91.6*	845	*8.4*	10119	*100.0*
1984	9460	*91.8*	845	*8.2*	10305	*100.0*
1985	9558	*92.4*	784	*7.6*	10342	*100.0*
1986	9207	*92.8*	709	*7.2*	9916	*100.0*
1987	9350	*93.0*	709	*7.0*	10059	*100.0*
1988	9592	*93.1*	713	*6.9*	10305	*100.0*
1989	9673	*93.0*	724	*7.0*	10397	*100.0*
1990	9814	*94.8*	541	*5.2*	10355	*100.0*

a. Data on Glass Fiber are no longer available due to company disclosure.
The series including Glass Fiber was last published in the January 1984 issue.

GRAPH 6:
TOTAL MANUFACTURED FIBER PRODUCTION & SHIPMENTS [a]
MILLION POUNDS

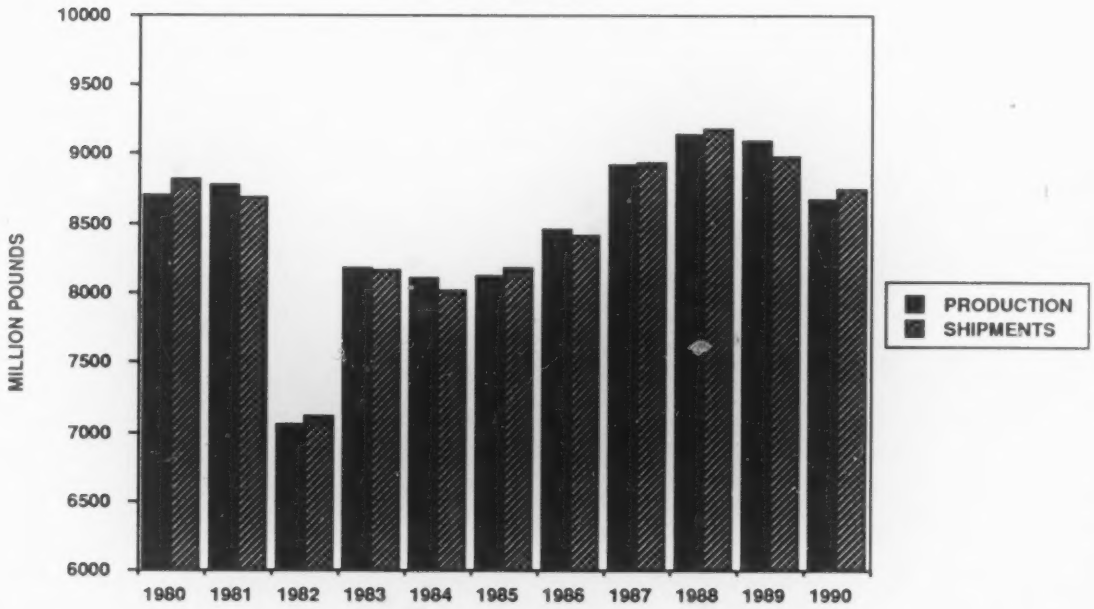


TABLE 8:
TOTAL MANUFACTURED FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

ITEM	1990	1989	% CHG. 1990/1989	1988	% CHG. 1990/1988	1987	% CHG. 1990/1987
ARTIFICIAL (CELLULOSIC)							
YARN	206.7	219.0	*-5.6*	216.7	*-4.6*	191.7	*+7.8*
RAYON STAPLE	302.6	354.4	*-14.6*	406.5	*-25.6*	415.5	*-27.2*
TOTAL ARTIFICIAL (CELLULOSIC)	**509.3**	**573.4**	***-11.2***	**623.2**	***-18.3***	**607.2**	***-16.1***
SYNTHETIC (NONCELLULOSIC)							
YARN+MONOFILAMENTS							
NYLON - INDUSTRIAL	341.2	364.5	*-6.4*	375.2	*-9.1*	373.4	*-8.6*
- CARPET	986.0	967.7	*+1.9*	976.2	*+1.0*	941.6	*+4.7*
- TEXTILE [a]	369.1	399.9	*-7.7*	387.0	*-4.6*	378.8	*-2.6*
POLYESTER - INDUSTRIAL	361.3	365.3	*-1.1*	360.2	*+0.3*	338.8	*+6.6*
- TEXTILE [a]	768.3	804.4	*-4.4*	871.9	*-11.9*	841.5	*-8.7*
OLEFIN	1420.5	1248.5	*+13.8*	1219.6	*+16.5*	1143.8	*+24.2*
TOTAL YARN	**4246.4**	**4149.9**	***+2.3***	**4190.1**	***+1.3***	**4017.9**	***+5.7***
STAPLE+TOW+FIBERFILL							
NYLON	974.4	978.5	*-0.4*	963.9	*+1.1*	985.5	*-1.1*
ACRYLIC+MODACRYLIC	500.6	537.4	*-6.8*	590.2	*-15.2*	594.4	*-15.8*
POLYESTER	2098.1	2354.8	*-10.9*	2448.9	*-14.3*	2369.2	*-11.4*
OLEFIN	410.3	377.4	*+8.7*	363.8	*+12.8*	363.9	*+12.8*
TOTAL STAPLE	**3983.4**	**4248.1**	***-6.2***	**4366.8**	***-8.8***	**4313.0**	***-7.6***
TOTAL SYNTHETIC (NONCELLULOSIC)	**8229.8**	**8398.0**	***-2.0***	**8556.9**	***-3.8***	**8330.9**	***-1.2***
TOTAL MANUFACTURED FIBER	**8739.1**	**8971.4**	***-2.6***	**9180.1**	***-4.8***	**8938.1**	***-2.2***

a. Includes low denier industrial yarn.

TABLE 9:
SELECTED U.S. MANUFACTURED FIBER IMPORTS BY COUNTRY OF ORIGIN
THOUSAND POUNDS

ITEMS & COUNTRY	1990 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE 1990	1989
ARTIFICIAL (CELLULOSIC) YARN, MONOFIL & STRIPS														
AUSTRIA	67	3	1	89	68	83	159	69	0	48	39		626	433
BRAZIL	26	53	53	74	165	107	82	83	75	67	82		867	620
CANADA	628	303	171	405	377	432	350	555	647	781	665		5314	6849
CHILE	0	309	66	44	287	44	111	0	132	22	22		1037	268
WEST GERMANY	422	516	844	684	783	506	528	557	1044	670	756		7310	8011
IRELAND	145	0	36	35	34	36	105	0	36	0	69		496	631
JAPAN	104	72	111	104	170	164	29	117	63	75	61		1070	1191
KOREA, REP. OF	0	22	33	22	29	0	11	0	22	0	0		139	194
MEXICO	102	8	121	78	100	116	149	171	37	154	56		1088	1537
NETHERLANDS	282	264	345	178	275	483	317	444	211	290	145		3234	3018
UNITED KINGDOM	34	22	60	0	38	52	51	64	30	0	24		375	1043
ALL OTHER COUNTRIES [a]	21	56	22	49	25	42	37	87	83	85	57		564	1107
TOTAL ARTIFICIAL YARN	**1831**	**1624**	**1863**	**1762**	**2351**	**2065**	**1929**	**2147**	**2380**	**2192**	**1976**		**22120**	**24902**
ARTIFICIAL (CELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	319	493	108	1254	910	2497	1851	2076	1630	1641	1610		14389	3848
CANADA	4973	3854	4391	4333	4128	4049	4139	3767	3470	4028	3356		44488	36137
WEST GERMANY	89	134	257	322	347	243	484	760	706	690	857		4889	1544
JAPAN	143	204	126	131	238	69	176	144	191	123	70		1615	2128
POLAND	124	171	43	46	0	109	35	0	0	0	0		528	359
SWEDEN	118	71	49	72	0	4	24	199	0	145	102		784	131
SWITZERLAND	0	27	0	14	0	0	0	41	54	41	0		177	593
TAIWAN	354	988	1323	964	1732	1242	1294	1576	1637	1722	1622		14454	1263
UNITED KINGDOM	89	93	73	37	162	46	917	1116	906	729	1488		5656	1216
ALL OTHER COUNTRIES [b]	95	59	91	18	32	866	3074	2860	2286	3825	2125		15331	3240
TOTAL ARTIFICIAL STAPLE+TOW	**6304**	**6094**	**6461**	**7191**	**7549**	**9125**	**11994**	**12539**	**10880**	**12944**	**11230**		**102311**	**50459**
SYNTHETIC (NONCELLULOSIC) YARN, MONOFIL & STRIPS														
ARGENTINA	0	0	43	34	9	0	81	26	0	1	0		194	3338
BELGIUM	776	122	589	594	1384	786	322	457	539	189	98		5856	3388
BRAZIL	70	71	57	180	118	76	47	14	14	28	0		675	1213
CANADA	3834	2895	4150	3775	4492	3853	4734	5215	3831	3564	2653		42996	35249
COSTA RICA	762	517	497	462	787	470	366	294	518	479	567		5719	5264
ECUADOR	53	16	67	67	75	34	68	34	34	34	0		482	632
FRANCE	2007	1305	1065	1378	1223	1302	915	495	193	315	347		10545	11326
WEST GERMANY	2096	2021	1480	1546	2024	1917	2195	2261	1579	2232	1415		20766	26679
ITALY	892	434	593	905	861	313	755	313	217	70	56		5409	6891
JAPAN	760	656	505	573	356	622	469	615	347	706	568		6179	8609
KOREA, REP. OF	31	0	90	20	46	42	72	39	81	66	85		572	549
MEXICO	1393	900	1607	1396	1145	1967	2063	1966	1611	1595	1974		17617	23606
NETHERLANDS	103	305	921	219	117	195	231	209	193	239	200		2932	1926
PORTUGAL	62	234	49	42	62	0	0	0	0	0	0		449	342
SINGAPORE	16	16	0	0	33	0	33	0	0	33	15		146	169
TAIWAN	791	227	114	818	437	959	315	542	579	262	262		5306	17625
THAILAND	58	93	95	123	64	65	66	79	92	31	64		830	1026
UNITED KINGDOM	1881	1492	2076	1029	1282	1718	1195	1140	1149	1926	1419		16307	18354
ALL OTHER COUNTRIES [c]	351	85	147	79	79	91	122	194	163	186	173		1670	4108
TOTAL SYNTHETIC YARN	**15936**	**11391**	**14145**	**13240**	**14594**	**14410**	**14049**	**13893**	**11140**	**11956**	**9896**		**144650**	**170294**
SYNTHETIC (NONCELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	0	53	11	11	6	14	6	0	244	17	11		373	175
AUSTRALIA	38	120	30	72	63	106	89	88	139	54	65		864	718
BELGIUM	1	16	0	158	0	78	15	350	0	0	0		618	1140
CANADA	3703	2439	3082	2325	2156	1402	1950	2210	2016	1791	1822		24896	13528
FRANCE	592	297	769	436	558	364	529	368	259	321	300		4793	3662
WEST GERMANY	1017	1236	1063	1205	1618	1398	1044	964	904	1082	1778		13309	16246
INDIA	1731	1055	4215	0	2528	1752	1810	599	0	43	811		14544	17277
IRELAND	0	26	0	0	0	84	80	121	118	40	77		546	1488
ITALY	422	318	534	204	206	176	85	88	82	74	194		2383	2184
JAPAN	1754	1763	2307	1539	1531	1874	2013	2150	1935	2543	2400		21809	24049
KOREA, REP. OF	1786	1273	1778	2043	3441	4750	4477	3887	6448	6527	4312		40722	40284
MEXICO	3590	2041	2015	2355	3385	1382	932	1002	1546	2663	1037		21948	7975
NETHERLANDS	1	0	57	20	10	20	0	24	7	4	48		191	1525
SPAIN	35	0	0	0	0	93	32	29	69	30	0		288	452
SWITZERLAND	399	124	87	385	107	280	105	220	176	85	156		2124	1755
TAIWAN	888	572	931	1400	1476	1215	1458	1365	1452	2198	2206		15161	22998
TURKEY	112	114	0	0	0	0	76	0	366	36	60		764	792
UNITED KINGDOM	2249	1868	2834	2159	2242	1157	828	841	1828	1424	1331		18761	18501
ALL OTHER COUNTRIES [d]	549	326	137	92	219	1362	1099	25	49	502	123		4483	812
TOTAL SYNTHETIC STAPLE+TOW	**18867**	**13641**	**19850**	**14404**	**19546**	**17507**	**16628**	**14331**	**17638**	**19434**	**16731**		**188577**	**175561**

a. Italy 108, Hungary 104, India 91, France 69, Ecuador 67, Australia 35, Taiwan 23, Belgium 20, Uruguay 13, Turkey 12, China, PRC 11, Thailand 8, Hong Kong 1, Peru 1, Venezuela 1.

b. Finland 5763, Spain 3431, Thailand 2902, Yugoslavia 1729, China, PRC 563, Italy 272, Netherlands 222, Mexico 122, Venezuela 116, France 87, Belgium 72, Czechoslovakia 45, Brazil 7.

c. Ireland 551, Spain 268, El Salvador 126, Switzerland 120, Turkey 115, Sweden 91, Paraguay 83, Morocco 59, Hong Kong 51, Austria 45, Peru 45, Finland 33, China, PRC 19, Honduras 18, India 15, Yugoslavia 8, Greece 7, Colombia 6, Haiti 6, Australia 2, Dominican Republic 2.

d. Brazil 2766, Venezuela 395, China, PRC 365, Malaysia 279, Thailand 209, Sweden 180, Romania 114, Denmark 64, Hong Kong 64, Poland 47.

TABLE 10:
U.S. MANUFACTURED FIBER IMPORTS
THOUSAND POUNDS

ITEM	1990 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE 1990	1989
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	242	208	240	163	110	92	266	421	166	190	8		2106	2249
TEXTURED	54	8	0	33	32	81	32	43	72	9	0		364	1349
OTHER	1385	1371	1471	1528	2171	1855	1524	1682	2100	1992	1898		18977	20334
MONOFILAMENTS & STRIPS	150	37	152	38	38	37	107	1	42	1	70		673	970
SUBTOTAL ABOVE	**1831**	**1624**	**1863**	**1762**	**2351**	**2065**	**1929**	**2147**	**2380**	**2192**	**1976**		**22120**	**24902**
STAPLE	5989	5884	6154	6846	7218	8895	11534	11829	10270	12266	10448		97333	49695
TOW	312	210	307	342	331	230	460	710	610	677	782		4971	709
TOPS	3	0	0	3	0	0	0	0	0	1	0		7	55
SUBTOTAL ABOVE	**6304**	**6094**	**6461**	**7191**	**7549**	**9125**	**11994**	**12539**	**10880**	**12944**	**11230**		**102311**	**50459**
WASTE	**0**	**0**	**0**	**22**	**0**	**88**	**44**	**11**	**168**	**88**	**44**		**465**	**538**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	1435	856	1437	1000	1336	1220	1207	1272	1301	1869	1517		14450	17873
TEXTURED														
UP TO 450 DENIER	270	333	253	338	520	212	297	327	279	220	196		3245	3382
OVER 450 DENIER	2936	1350	2132	3039	3721	3074	3821	2935	2316	1241	522		27087	12505
POY	0	0	0	0	0	0	1712	2149	1417	2420	1909		9607	0
OTHER	4531	3817	4273	2090	2435	3285	340	579	67	71	107		21595	43280
MONOFILAMENTS & STRIPS	216	117	148	191	134	164	152	123	55	131	87		1518	1241
SUBTOTAL ABOVE	**9388**	**6473**	**8243**	**6658**	**8146**	**7955**	**7529**	**7385**	**5435**	**5952**	**4338**		**77502**	**78281**
POLYESTER														
HIGH TENACITY	614	408	506	421	345	457	545	580	712	578	525		5691	7386
TEXTURED	785	643	626	923	581	1368	1278	1112	1021	654	1002		9993	18161
POY	719	119	117	758	251	716	206	472	495	296	255		4404	16051
OTHER	2038	1457	1459	1683	1949	1300	1243	1839	1363	2036	1715		18082	17816
MONOFILAMENTS & STRIPS	53	0	67	40	53	38	57	76	102	47	79		612	714
SUBTOTAL ABOVE	**4209**	**2627**	**2775**	**3825**	**3179**	**3879**	**3329**	**4079**	**3693**	**3611**	**3576**		**38782**	**60128**
OTHER SYNTHETIC FILAMENT														
TEXTURED	1451	1408	2224	1880	2281	1847	2207	1905	1393	1562	1282		19440	18573
OTHER	277	223	301	276	307	324	410	284	207	305	196		3110	6659
MONOFILAMENTS & STRIPS	611	660	602	601	681	405	574	540	412	526	504		6116	6653
SUBTOTAL ABOVE	**2339**	**2291**	**3127**	**2757**	**3269**	**2576**	**3191**	**2729**	**2012**	**2393**	**1982**		**28666**	**31885**
STAPLE														
NYLON	4048	3037	4055	3032	3267	2179	2715	3119	2750	2653	3033		33888	18939
POLYESTER	9261	5813	9622	6652	12118	11296	10832	8084	10869	12640	9902		107089	107287
ACRYLIC	1711	1729	2063	1586	860	1458	1273	890	1315	1764	1021		15670	16518
POLYPROPYLENE	543	37	160	27	105	90	173	168	5	130	81		1519	1985
OTHER	196	190	320	146	151	362	251	256	326	171	424		2793	4165
TOW														
NYLON	409	308	555	385	603	471	647	408	277	335	365		4763	4086
POLYESTER	15	70	70	2	26	174	161	146	114	92	35		905	927
ACRYLIC	2512	1973	2649	2252	2133	1350	513	967	1862	1469	1654		19334	18305
OTHER	70	5	35	105	135	0	6	67	0	58	48		529	427
TOPS	102	479	321	217	148	127	57	226	120	122	168		2087	2922
SUBTOTAL ABOVE	**18867**	**13641**	**19850**	**14404**	**19546**	**17507**	**15628**	**14331**	**17638**	**19434**	**16731**		**188577**	**175561**
WASTE														
NYLON	2694	2074	1628	1933	1267	1940	2123	1864	1127	1818	1701		20169	21786
POLYESTER	2703	2241	1882	1067	3127	2128	1675	1978	1522	2900	1585		22808	14289
OTHER	444	571	1027	602	838	876	568	819	718	680	725		7868	6522
TOTAL MANUFACTURED FIBERS ABOVE	**48779**	**37636**	**46856**	**40221**	**49272**	**48139**	**49010**	**47882**	**45573**	**52012**	**43888**		**509268**	**464351**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	115	59	34	62	59	121	89	147	89	88	107		900	1258
SPUN YARN	427	503	318	594	534	436	436	608	542	586	388		5372	4787
SPUN YARNS														
SYNTHETIC	2420	2155	2639	1902	2841	2270	1903	1731	1521	1617	1400		22399	46393
ARTIFICIAL	0	0	0	0	0	0	0	0	0	0	0		0	0
PUT UP FOR RETAIL SALE	32	24	70	34	87	88	106	156	65	86	38		786	558
GRAND TOTAL ABOVE	**51773**	**40377**	**49937**	**42813**	**52793**	**51054**	**51544**	**50524**	**47190**	**54389**	**45821**		**538815**	**517347**

SOURCE: U.S. Census Bureau Report IM145X.

TABLE 11:
U.S. MANUFACTURED FIBER EXPORTS
THOUSAND POUNDS

ITEM	1990 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE 1990	1989
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	92	37	44	6	45	157	260	52	160	133	135		1121	556
TEXTURED	217	9	30	284	101	114	104	92	9	28	191		1179	1644
OTHER	66	106	57	64	46	18	63	64	49	71	56		660	966
MONOFILAMENTS & STRIPS	97	0	15	11	26	3	9	15	21	40	6		243	281
SUBTOTAL ABOVE	**472**	**152**	**146**	**365**	**218**	**292**	**436**	**223**	**239**	**272**	**388**		**3203**	**3447**
STAPLE	1195	2051	1838	1329	1645	1171	1168	1717	661	933	748		14456	17996
TOPS	333	0	203	187	185	58	0	110	86	43	130		1335	716
SUBTOTAL ABOVE	**1528**	**2051**	**2041**	**1516**	**1830**	**1229**	**1168**	**1827**	**747**	**976**	**878**		**15791**	**18712**
WASTE	**330**	**407**	**614**	**547**	**603**	**587**	**329**	**471**	**673**	**834**	**509**		**5904**	**11014**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	7757	7357	9332	8892	15463	10230	8865	10506	11992	11232	12492		114118	99525
TEXTURED														
UP TO 450 DENIER	1571	588	626	2098	791	751	644	857	732	960	783		10411	8417
OVER 450 DENIER	5636	4353	5225	4130	3350	4019	3295	4157	3642	4017	2754		44578	45325
OTHER	2637	2264	3143	2401	2191	2066	1248	2562	2389	2999	2686		26586	22990
MONOFILAMENTS & STRIPS	8	32	93	33	42	35	14	12	29	61	329		688	1843
SUBTOTAL ABOVE	**17609**	**14594**	**18419**	**17554**	**21837**	**17101**	**14066**	**18104**	**18784**	**19269**	**19044**		**196381**	**178100**
POLYESTER														
HIGH TENACITY	4308	5166	5459	4737	3944	4664	3644	3610	3649	4788	3524		47493	36492
TEXTURED	3074	3021	4078	3508	3650	4310	1507	3938	4030	4641	4983		40740	31539
POY	1831	2368	1287	1783	2918	1306	749	966	438	737	976		15359	16095
OTHER	1297	1746	1824	1275	2294	1566	1061	2504	1899	2757	3753		21976	9738
MONOFILAMENTS & STRIPS	185	285	91	93	188	186	116	137	180	362	189		2012	2939
SUBTOTAL ABOVE	**10695**	**12586**	**12739**	**11396**	**12994**	**12032**	**7077**	**11155**	**10196**	**13285**	**13425**		**127580**	**96803**
OTHER SYNTHETIC FILAMENT														
TEXTURED	535	523	549	801	424	434	461	758	669	267	619		6040	8452
OTHER	2035	2007	2279	2972	4061	1909	1369	2229	1447	2373	1518		24199	18976
MONOFILAMENTS & STRIPS	876	913	1664	1218	1223	1230	831	1160	643	1094	917		11769	8395
SUBTOTAL ABOVE	**3446**	**3443**	**4492**	**4991**	**5708**	**3573**	**2661**	**4147**	**2759**	**3734**	**3054**		**42008**	**35823**
STAPLE														
NYLON	3163	2765	2343	3257	2210	1729	1591	1908	2150	2244	1572		24932	29743
POLYESTER	7157	6405	9490	7701	8861	6382	4256	5919	6006	6836	7283		76296	105045
ACRYLIC	4584	3178	3682	3936	4697	6363	4961	6581	3974	3338	1811		47305	69999
POLYPROPYLENE	2038	1561	2666	3226	2211	2805	2562	2342	1981	2134	2420		25946	26255
OTHER	2688	923	1504	961	1818	1062	802	1559	879	876	760		13832	18754
TOW														
NYLON	121	176	155	304	145	191	152	128	140	202	118		1832	910
POLYESTER	18	64	0	100	6	52	321	54	36	92	25		768	4235
ACRYLIC	1710	1787	989	956	1245	1506	2418	2856	4306	1158	1147		20078	18013
OTHER	26	12	15	243	0	679	7	504	22	24	128		1660	1255
TOPS	3984	2729	2309	4760	2552	4741	7817	5715	6128	5268	12260		58263	21774
SUBTOTAL ABOVE	**25489**	**19600**	**23353**	**25444**	**23745**	**25510**	**24887**	**27566**	**25622**	**22172**	**27524**		**270912**	**295883**
WASTE														
NYLON	4117	4250	3894	2746	3957	3139	3630	2527	3173	3145	2774		37352	26763
POLYESTER	3268	2845	2782	3321	2596	1833	1190	1860	3163	3482	3801		30141	39489
OTHER	3343	3700	4979	4352	4994	6193	3494	7610	7618	6938	4654		57875	66858
TOTAL MANUFACTURED FIBERS ABOVE	**70297**	**63628**	**73459**	**72232**	**78482**	**71489**	**58938**	**75490**	**72974**	**74107**	**76051**		**787147**	**772892**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	28	45	32	25	68	13	128	3	58	28	9		437	657
SPUN YARN	0	0	0	0	0	0	0	0	0	0	0		0	0
SPUN YARNS														
SYNTHETIC	3007	4304	3749	4278	4103	3890	3415	5684	5207	4807	3732		46176	[illegible]
ARTIFICIAL	0	0	0	0	0	0	0	0	0	0	0		0	
PUT UP FOR RETAIL SALE	287	398	641	746	789	715	970	927	1209	1423	569		8674	[illegible]
GRAND TOTAL ABOVE	**73619**	**68375**	**77881**	**77281**	**83442**	**76107**	**63451**	**82104**	**79448**	**80365**	**80361**		**842434**	**813821**

SOURCE: U.S. Census Bureau Report EM522.

TABLE 12:
1989 MANUFACTURED FIBER PRODUCTION, IMPORT, EXPORT & NET AVAILABLE SUPPLY BY COUNTRY EXCEPT OLEFIN & GLASS FIBER

MILLION POUNDS

	ARTIFICIAL (CELLULOSIC)								SYNTHETIC (NONCELLULOSIC)								TOTAL MANUFACTURED FIBERS					
	YARN				STAPLE+TOW				YARN				STAPLE+TOW							ART.	SYN.	NET
COUNTRY & AREA	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	SPUN	SPUN	AVAIL
WESTERN EUROPE																						
AUSTRIA	NA	8.8	21.2	NA	NA	5.2	156.7	NA	0	48.8	13.0	35.8	38.4	50.7	47.7	41.4	338.2	113.5	238.6	-59.9	-6.0	147.2
BENELUX	NA	36.6	109.8	NA	NA	117.6	32.5	NA	176.4	433.7	277.4	332.7	88.2	273.3	152.6	208.9	352.8	861.2	572.3	+21.9	+56.4	720.0
FINLAND	NA	1.3	0.1	NA	NA	5.9	91.6	NA	0.4	23.6	1.1	22.9	0	23.6	0.3	23.3	143.3	54.4	93.1	+1.9	+7.7	114.2
FRANCE	NA	67.7	24.6	NA	NA	80.4	5.0	NA	128.7	254.4	109.7	273.4	235.0	242.8	129.5	348.3	368.1	645.3	268.8	+41.7	+29.1	815.4
WEST GERMANY	NA	63.1	84.7	NA	NA	141.0	96.1	NA	782.6	232.1	532.3	482.4	925.9	314.9	845.1	395.7	1992.9	751.1	1558.2	-4.5	-35.7	1145.6
GREECE	NA	0.5	11.9	NA	NA	10.9	0	NA	22.5	10.8	8.8	24.5	17.6	34.3	5.4	46.5	56.6	56.5	26.1	-0.2	+9.0	95.8
IRELAND	0	0.5	0.3	0.2	0	8.4	0.3	8.1	36.8	17.9	34.3	20.4	161.6	15.8	130.1	47.3	198.4	42.6	165.0	+0.8	-2.6	74.2
ITALY/MALTA	NA	70.5	22.5	NA	NA	122.8	7.5	NA	429.9	231.2	249.8	411.3	760.6	356.7	512.0	605.3	1967.7	781.2	791.8	+28.6	-90.0	1195.7
NORWAY	0	0.2	0	0.2	0	3.1	1.2	1.9	0	9.5	1.4	8.1	0	6.3	0.1	6.2	0	19.1	2.7	+0.2	+1.7	18.3
PORTUGAL	NA	[illegible]	1.2	NA	NA	21.1	0	NA	0	61.5	4.0	57.5	123.0	29.7	19.1	133.6	125.0	118.6	24.3	+0.6	+5.4	225.3
SPAIN	NA	[illegible].2	5.8	NA	NA	46.2	23.9	NA	174.8	100.6	25.5	249.9	387.3	147.0	166.8	367.5	650.3	313.0	222.0	-1.4	-14.7	725.2
SWEDEN	NA	3.1	4.0	NA	NA	7.7	31.7	NA	0	26.7	2.0	24.7	0	29.0	0.9	28.1	44.8	66.5	38.6	+0.5	+5.1	78.3
SWITZERLAND	0	5.2	1.3	3.9	0	16.9	0.9	16.0	160.1	21.0	145.2	35.9	50.7	26.8	78.4	-0.9	210.8	69.9	225.8	+1.2	+6.5	62.6
TURKEY	NA	1.4	1.9	NA	NA	1.2	0	NA	191.8	42.6	45.9	188.5	432.1	41.4	68.2	405.3	644.4	86.6	116.0	-0.3	-32.0	582.7
UNITED KINGDOM	NA	22.3	34.5	NA	NA	52.2	79.9	NA	220.5	315.1	152.2	383.4	187.4	265.9	60.3	393.0	529.2	655.5	326.9	+1.9	+77.8	937.5
TOTAL WESTERN EUROPE	434.4	306.7	323.8	417.3	755.8	640.6	527.3	869.1	2324.5	1829.5	1602.6	2551.4	3407.8	1858.2	2216.5	3049.5	6922.5	4635.0	4670.2	+33.0	+17.7	6938.0
EASTERN EUROPE																						
ALBANIA	0	+	0	+	0	0	0	0	1.1	0.2	+	1.3	0	0.5	0	0.5	1.1	0.7	0	0	+0.2	2.0
BULGARIA	9.7	0.2	0	9.9	0	1.7	0.1	1.6	90.8	4.7	0.4	95.1	109.3	10.5	0.3	119.5	209.8	17.1	0.8	0	+0.3	226.4
CZECHOSLOVAKIA	26.2	+	0.2	26.0	64.2	+	5.5	58.7	167.8	7.2	13.4	161.6	115.3	10.0	7.1	118.2	373.5	17.2	26.2	+0.2	+2.9	367.6
EAST GERMANY	84.7	0.7	+	85.4	290.8	+	22.1	268.7	167.5	5.3	6.2	166.6	195.3	1.7	18.6	178.4	738.3	7.7	46.9	+3.9	+8.9	711.9
HUNGARY	0	0.5	1.0	-0.5	9.5	0.6	3.7	6.4	14.6	9.6	2.3	21.9	41.9	20.0	1.4	60.5	66.0	30.7	8.4	-3.9	-1.2	83.2
POLAND	37.3	1.1	0.8	37.6	97.4	3.8	+	101.2	176.8	5.8	3.6	179.0	108.9	14.0	0.8	122.1	420.4	24.7	5.2	0	+4.5	444.4
ROMANIA	19.8	0	+	19.8	135.8	0	21.6	114.2	131.6	0.2	5.0	126.8	317.7	+	15.4	302.3	604.9	0.2	42.0	-0.1	-0.3	562.7
U.S.S.R.	540.3	14.6	1.2	553.7	747.1	18.7	1.8	764.0	1032.2	77.9	0.1	1110.0	930.3	36.1	2.7	963.7	3249.9	147.3	5.8	0	+4.7	3396.1
YUGOSLAVIA	32.6	7.5	8.2	32.1	123.9	0.6	19.1	105.4	103.8	39.1	18.7	124.2	133.2	26.4	15.4	144.2	393.7	73.6	61.4	-6.8	+0.6	399.7
TOTAL EASTERN EUROPE	750.8	24.6	11.4	764.0	1468.7	25.4	73.9	1420.2	1886.2	150.0	49.7	1986.5	1951.9	119.2	61.7	2009.4	6057.6	319.2	196.7	-6.7	+20.6	6194.0
TOTAL EUROPE	1185.2	331.3	335.2	1181.3	2224.5	666.0	601.2	2289.3	4210.7	1979.5	1652.3	4537.9	5359.7	1977.4	2278.2	5058.9	12980.1	4954.2	4866.9	+26.3	+38.3	13132.0
U.S.A.	217.5	26.3	4.3	239.5	362.8	54.0	20.1	396.7	2968.2	182.2	335.7	2814.7	3908.7	192.4	322.5	3778.6	7457.2	454.9	682.6	0	+12.7	7242.2
CANADA	28.9	34.7	24.4	39.2	73.9	3.2	51.7	25.4	143.7	170.0	64.6	249.1	131.4	65.4	22.2	174.6	377.9	273.3	162.9	+0.6	+61.9	550.8
OTHER AMERICAS																						
ARGENTINA	7.7	0.5	+	8.2	0	+	0	0	52.7	0.5	0	53.2	43.7	1.4	0	45.1	104.1	2.4	0	0	0	106.5
BOLIVIA	0	0	0	0	0	0	0	0	0	0.1	0	0.1	0	2.2	0	2.2	0	2.3	0	0	0	2.3
BRAZIL	32.6	6.0	9.9	28.7	88.6	5.5	12.3	81.8	291.4	6.6	9.3	288.7	251.8	3.3	1.3	253.8	664.4	21.4	32.8	0	-18.3	634.7
CHILE	2.9	0.1	0.9	2.1	9.3	1.3	+	10.6	10.6	1.5	0	12.1	6.6	21.1	0	27.7	29.4	24.0	0.9	0	0	52.5
COLOMBIA	5.5	0.1	0	5.6	0	3.9	0	3.9	85.1	1.3	0	86.4	27.6	8.7	0	36.3	118.2	14.0	0	0	0	132.2
COSTA RICA	0	0	0	0	0	+	0	+	0	1.2	6.1	-4.9	0	7.7	0	7.7	0	8.9	6.1	0	0	2.8
CUBA	1.5	0	0.1	1.4	16.8	0.5	0	17.3	0	0.1	0	0.1	0	0	0.1	-0.1	18.3	0.6	0.2	0	0	18.7
ECUADOR	0	+	0	+	0	0.7	0	0.7	14.3	1.2	0	15.5	0	13.1	0	13.1	14.3	15.0	0	0	0	29.3
MEXICO	26.9	0.5	2.2	25.2	0	10.5	0	10.5	261.7	8.2	35.4	234.5	479.5	40.0	16.2	503.3	768.1	59.2	53.8	+0.3	-8.6	765.2
PERU	3.1	+	+	3.1	0	0.1	0	0.1	30.0	3.1	0	33.1	72.5	0.5	0	73.0	105.6	3.7	+	0	0	109.3
URUGUAY	2.9	+	0	2.9	0	+	0	+	4.9	0.2	0	5.1	8.6	0.8	0	9.4	16.4	1.0	0	0	0	17.4
VENEZUELA	5.1	+	0	5.1	0	2.7	0	2.7	42.5	0.7	0	43.2	47.2	1.3	0	48.5	94.8	4.7	0	0	0	99.5
TOTAL OTHER AMERICAS	88.2	7.2	13.1	82.3	114.7	25.2	12.3	127.6	793.2	24.7	50.8	767.1	937.5	100.1	17.6	1020.0	1933.6	157.2	93.8	+0.3	-26.9	1970.4

TABLE 12:
1989 MANUFACTURED FIBER PRODUCTION, IMPORT, EXPORT & NET AVAILABLE SUPPLY BY COUNTRY EXCEPT OLEFIN & GLASS FIBER *(CONTINUED)*

MILLION POUNDS

COUNTRY & AREA	ARTIFICIAL (CELLULOSIC) YARN PROD	YARN IMP	YARN EXP	YARN AVAIL	STAPLE+TOW PROD	STAPLE+TOW IMP	STAPLE+TOW EXP	STAPLE+TOW AVAIL	SYNTHETIC (NONCELLULOSIC) YARN PROD	YARN IMP	YARN EXP	YARN AVAIL	STAPLE+TOW PROD	STAPLE+TOW IMP	STAPLE+TOW EXP	STAPLE+TOW AVAIL	TOTAL MANUFACTURED FIBERS PROD	IMP	EXP	ART. SPUN	SYN. SPUN	NET AVAIL
JAPAN	218.3	5.0	75.5	147.8	383.6	0.7	166.8	217.5	1448.2	131.0	196.6	1382.6	1588.0	37.0	508.0	1117.0	3638.1	173.7	946.9	-7.4	-6.0	2851.5
CHINA, PRC	110.2	23.8	0.2	133.8	286.6	248.7	1.6	533.7	963.3	282.4	0	1190.7	1682.1	859.8	0.3	2541.6	2987.2	1414.7	2.1	-47.0	+2.2	4355.0
OTHER ASIA																						
BANGLADESH	10.6	0	0	10.6	2.2	2.9	0	5.1	1.3	0.1	0	1.4	0	0.2	0	0.2	14.1	3.2	0	0	0	17.3
HONG KONG	0	5.4	+	5.4	0	15.8	0	15.8	0	12.3	+	12.3	0	26.8	0.1	26.7	0	60.3	0.1	+0.4	0	60.6
INDIA	116.8	6.0	3.2	119.6	275.6	1.8	+	277.4	451.9	14.5	0	466.4	303.1	29.5	30.8	301.8	1147.4	51.8	34.0	-5.6	-9.7	1149.9
INDONESIA	0	1.2	0.1	1.1	132.3	7.6	0	139.9	269.0	41.7	8.2	302.5	231.5	33.2	0.3	264.4	632.8	83.7	8.6	-10.0	-10.6	687.3
KOREA, REP. OF	35.7	43.3	3.8	73.2	0	77.7	6.8	70.9	1386.3	70.5	198.3	1258.5	1236.8	101.0	329.6	1008.2	2656.8	292.5	538.5	+22.5	-80.3	2353.0
MALAYSIA	0	0.1	0	0.1	0	1.7	0	1.7	0	1.7	0	1.7	99.2	21.1	0.6	119.7	99.2	24.6	0.6	0	-6.8	116.4
PAKISTAN	7.1	5.9	0.5	12.5	0	2.8	+	2.8	39.7	9.5	0	49.2	57.3	25.5	0	82.8	104.1	43.7	0.5	+0.2	0	147.5
PHILIPPINES	0	0.1	0	0.1	0	5.2	0	5.2	55.8	5.5	+	61.3	37.5	30.4	0	67.9	93.3	41.2	0	0	0	134.5
SRI LANKA	0	0.1	0	0.1	0	1.6	0	1.6	4.4	0.8	0	5.2	0	0.3	0	0.3	4.4	2.8	0	0	0	7.2
TAIWAN	5.7	2.7	3.8	4.6	319.7	18.1	86.8	251.0	1727.3	38.9	251.9	1514.3	1630.5	118.4	505.1	1243.8	3683.2	178.1	847.6	-8.7	-11.8	2993.2
THAILAND	0	0.4	+	0.4	90.8	2.9	+	93.7	132.3	5.1	1.4	136.0	187.4	17.9	0.3	205.0	410.5	26.3	1.7	-5.6	-7.5	422.0
TOTAL OTHER ASIA	173.9	65.2	11.4	227.7	820.6	138.1	93.6	865.1	4068.0	200.6	459.8	3808.8	3783.3	404.3	866.8	3320.8	8845.8	808.2	1431.6	-6.8	-126.7	8088.9
MIDDLE EAST, AFRICA & OCEANIA																						
AUSTRALIA/NZ	0	0.9	0	0.9	0	3.5	0.3	3.2	37.5	45.3	+	82.8	2.6	23.4	0.8	25.2	40.1	73.1	1.1	0	+10.8	122.9
EGYPT	17.4	0.3	0.2	17.5	11.5	0.1	0.1	11.5	20.7	6.1	1.1	25.7	84.7	2.7	25.1	62.3	134.3	9.2	26.5	-0.1	-15.9	101.0
IRAN	0	0.2	0	0.2	0	+	0	+	22.7	0.6	0	23.3	66.1	36.1	0	102.2	88.8	36.9	0	0	0	125.7
IRAQ	6.6	1.5	0	8.1	12.3	0.1	0	12.4	0	3.6	0	3.6	0	12.5	0	12.5	18.9	17.7	0	+0.6	+5.1	42.3
ISRAEL	0	0.4	+	0.4	0	11.6	+	11.6	27.3	14.4	11.5	30.2	0	27.9	2.1	25.8	27.3	54.3	13.6	+0.7	+6.7	75.4
KENYA	0	0	0	0	0	1.8	0	1.8	10.8	0.5	0	11.3	2.4	8.9	0	11.3	13.2	11.2	0	+0.2	0	24.6
NIGERIA	0	+	0	+	0	0.1	0	0.1	9.9	1.6	0	11.5	7.1	2.7	0	9.8	17.0	4.4	0	0	0	21.4
SOUTH AFRICA	0	0.1	+	0.1	0	0.9	0.1	0.8	135.4	9.1	10.2	134.3	79.1	78.1	1.0	156.2	214.5	88.2	11.3	+0.4	0	291.8
TANZANIA	0	0	0	0	0	0	0	0	6.6	0.3	0	6.9	0	0.3	0	0.3	6.6	0.6	0	0	0	7.2
TOTAL M.E., A. & O.	24.0	3.4	0.2	27.2	23.8	18.1	0.5	41.4	270.9	81.5	22.8	329.6	242.0	192.6	29.0	405.6	560.7	295.6	52.5	+1.8	+6.7	812.3
TOTAL ALL COUNTRIES	2046.2	496.9	464.3	2078.8	4290.5	1154.0	947.8	4496.7	14811.2	3051.9	2782.6	15080.5	17632.7	3829.0	4044.6	17417.1	38780.6	8531.8	8239.3	-32.2	-37.8	39003.1

Explanation of this table can be found below.
NA Not Available.
+ Less than 100 thousand pounds.

NET AVAILABLE SUPPLY

The 1989 by-country production, import, export and net available or retained supply of four categories of manufactured fiber are presented in millions of pounds in Table 12. The data in Table 12 exclude acetate cigarette tow and include imports and exports of tire cord and tire cord fabric.

"Net Available Supply" is defined as production plus imports less exports plus the balance of trade in spun yarn. Sometimes this is called **"apparent consumption"**. **"Yarn"** is defined to include tire cord and tire cord fabric, filament yarn and monofilaments. **"Staple"** is defined to include tow, fiberfill, tops and advanced waste. Unprocessed waste is not included.

Except for spun yarns, the imports and exports of manufactured and semimanufactured products (e.g., fabric, dresses, hosiery, etc.) are not included in the manufactured fiber data.

The spun yarn data are shown under the **"Total Manufactured Fiber"** columns in Table 12. Space does not permit the presentation of import and export data separately. These data may include some quantities of blending fibers other than manufactured fiber.

A net import quantity is shown in the **"spun"** column as (+); in other words, an addition to a country's net available supply, while conversally a net export is shown as (-). For example, the 1989 cellulosic spun net yarn figure for Japan is shown as -7.4, which consists of imports of 2.5 (+2.5) and exports of 9.9 (-9.9).

TABLE 13:
1989 MILL CONSUMPTION OF MANUFACTURED FIBER, COTTON & WOOL IN SELECTED COUNTRIES EXCLUDING OLEFIN & GLASS FIBER

MILLION POUNDS

COUNTRY	MANUFACTURED FIBER[a]	COTTON[b]	WOOL[c]	TOTAL
WESTERN EUROPE				
AUSTRIA	147.2	48.0	9.0	204.2
BENELUX	720.0	121.9	99.2	941.1
FINLAND	114.2	12.5	2.3	129.0
FRANCE	815.4	275.5	62.1	1153.0
WEST GERMANY	1145.6	454.1	132.4	1732.1
GREECE	95.8	374.9	31.1	501.8
IRELAND	74.2	60.0	20.1	154.3
ITALY/MALTA	1195.7	694.6	294.5	2184.8
NORWAY	18.3	7.2	4.5	30.0
PORTUGAL	225.3	401.3	22.1	648.7
SPAIN	725.2	339.4	36.6	1101.2
SWEDEN	78.3	11.0	0.9	90.2
SWITZERLAND	62.6	147.8	14.7	225.1
TURKEY	582.7	1234.6	d	1817.3
UNITED KINGDOM	937.5	76.8	177.8	1192.1
TOTAL WESTERN EUROPE	**6938.0**	**4259.6**	**907.3**	**12104.9**
EASTERN EUROPE				
ALBANIA	2.0	16.8	d	18.8
BULGARIA	226.4	117.6	30.7	374.7
CZECHOSLOVAKIA	367.6	262.1	56.9	686.6
EAST GERMANY	711.9	182.4	48.5	942.8
HUNGARY	83.2	121.9	10.6	215.7
POLAND	444.4	316.3	43.5	804.2
ROMANIA	562.7	161.8	44.1	768.6
U.S.S.R.	3396.1	4416.0	736.1	8548.2
YUGOSLAVIA	399.7	231.4	32.2	663.3
TOTAL EASTERN EUROPE	**6194.0**	**5826.3**	**1002.6**	**13022.9**
TOTAL EUROPE	**13132.0**	**10085.9**	**1909.9**	**25127.8**
U.S.A.	**7242.2**	**4128.0**	**130.1**	**11500.3**
CANADA	**550.8**	**90.2**	**14.2**	**655.2**
OTHER AMERICAS				
ARGENTINA	106.5	217.0	46.6	370.1
BOLIVIA	2.3	24.0	10.9	37.2
BRAZIL	634.7	1708.8	13.2	2356.7
CHILE	52.5	33.6	16.8	102.9
COLOMBIA	132.2	212.6	5.7	350.5
COSTA RICA	2.8	5.8	d	8.6
CUBA	18.7	96.0	d	114.7
ECUADOR	29.3	38.4	d	67.7
MEXICO	765.2	360.5	12.8	1138.5
PERU	109.3	175.2	11.0	295.5
URUGUAY	17.4	4.8	12.3	34.5
VENEZUELA	99.5	55.2	1.6	156.3
TOTAL OTHER AMERICAS	**1970.4**	**2931.9**	**130.9**	**5033.2**

TABLE 13:
1989 MILL CONSUMPTION OF MANUFACTURED FIBER, COTTON & WOOL IN SELECTED COUNTRIES *(CONTINUED)*

MILLION POUNDS

COUNTRY	MANUFACTURED FIBER[a]	COTTON[b]	WOOL[c]	TOTAL
JAPAN	**2851.5**	**1545.6**	**268.8**	**4665.9**
CHINA, PRC	**4355.0**	**9675.8**	**536.7**	**14567.5**
OTHER ASIA				
BANGLADESH	17.3	151.2	d	168.5
HONG KONG	60.6	528.0	13.9	602.5
INDIA	1149.9	4104.0	70.9	5324.8
INDONESIA	687.3	639.4	d	1326.7
KOREA, REP. OF	2353.0	984.5	116.0	3453.5
MALAYSIA	116.4	101.3	3.0	220.7
PAKISTAN	147.5	2286.2	54.0	2487.7
PHILIPPINES	134.5	147.8	d	282.3
SRI LANKA	7.2	21.6	d	28.8
TAIWAN	2993.2	727.7	46.1	3767.0
THAILAND	422.0	661.4	d	1083.4
TOTAL OTHER ASIA	**8088.9**	**10353.1**	**303.9**	**18745.9**
MIDDLE EAST, AFRICA & OCEANIA				
AUSTRALIA/NEW ZEALAND	122.9	53.8	81.8	258.5
EGYPT	101.0	614.4	13.4	728.8
IRAN	125.7	264.5	53.8	444.0
IRAQ	42.3	100.8	20.1	163.2
ISRAEL	75.4	36.0	3.3	114.7
KENYA	24.6	28.8	2.0	55.4
NIGERIA	21.4	123.4	0	144.8
SOUTH AFRICA	291.8	148.8	27.8	468.4
TANZANIA	7.2	32.2	0	39.4
TOTAL M.E., A. & O.	**812.3**	**1402.7**	**202.2**	**2417.2**
TOTAL ALL COUNTRIES	**39003.1**	**40213.2**	**3496.7**	**82713.0**

a. Manufactured fiber data are from Table 12, pages 14 & 15, this issue. The data show the manufactured net available supply, which approximates mill consumptions.

b. **Source: International Cotton Advisory Committee, *Cotton: World Statistics*, Vol. 44, No. 1, October 1990.** Cotton refers to ginned raw cotton. It does not refer to waste or cotton fibers subjected to any other process. Data are for cotton year ending July 31, 1989.

c. **Source: Commonwealth Secretariat. *Wool Statistics*, 1989-90.** Wool refers to virgin wool, clean basis, at the spinning stage.

d. Represents minimal quantity, with exact amount not reported.

TABLE 14:
SELECTED U.S. ANNUAL FIBER DATA

MILLION POUNDS

ITEM	1984	1985	1986	1987	1988	1989	1990
	MANUFACTURED FIBER TOTAL SHIPMENTS [a] [b]						
ARTIFICIAL (CELLULOSIC)							
YARN	198.3	210.1	212.3	191.7	216.7	219.0	206.7
RAYON STAPLE	384.0	358.7	403.8	415.5	406.5	354.4	302.6
TOTAL ARTIFICIAL (CELLULOSIC)	**582.3**	**568.8**	**616.1**	**607.2**	**623.2**	**573.4**	**509.3**
SYNTHETIC (NONCELLULOSIC)							
YARN+MONOFILAMENTS							
NYLON - INDUSTRIAL[c]	375.1	345.1	333.4	373.4	375.2	364.5	341.2
- CARPET	794.9	835.4	898.5	941.6	976.2	967.7	986.0
- TEXTILE	387.4	355.3	360.5	378.8	387.0	399.9	369.1
POLYESTER - INDUSTRIAL[c]	313.1	292.1	313.9	338.8	360.2	365.3	361.3
- TEXTILE[d]	885.0	1020.4	855.8	841.5	871.9	804.0	768.3
OLEFIN [e]	742.1	951.1	1059.7	1143.8	1219.6	1248.5	1420.5
TOTAL YARN	**3497.6**	**3799.4**	**3821.8**	**4017.9**	**4190.1**	**4149.9**	**4246.4**
STAPLE+TOW+FIBERFILL							
NYLON	831.3	843.6	908.2	985.5	963.9	978.5	974.4
ACRYLIC+MODACRYLIC	666.2	643.8	614.1	594.4	590.2	537.4	500.6
POLYESTER	2192.4	2038.6	2123.4	2369.2	2448.9	2354.8	2098.1
OLEFIN [f]	246.7	288.2	331.5	363.9	363.8	377.4	410.3
TOTAL STAPLE	**3936.6**	**3814.2**	**3977.2**	**4313.0**	**4366.8**	**4248.1**	**3983.4**
TOTAL SYNTHETIC (NONCELL.)	**7434.2**	**7613.6**	**7799.0**	**8330.9**	**8556.9**	**8398.0**	**8229.8**
TOTAL MANUFACTURED FIBER	**8016.5**	**8182.4**	**8415.1**	**8938.1**	**9180.1**	**8971.4**	**8739.1**
	MANUFACTURED FIBER YEAR END STOCK						
ARTIFICIAL (CELLULOSIC)							
YARN	12.4	12.3	14.8	14.2	11.4	9.9	9.4
RAYON STAPLE	28.5	22.5	22.4	20.7	14.0	22.4	16.1
TOTAL ARTIFICIAL (CELLULOSIC)	**40.9**	**34.8**	**37.2**	**34.9**	**25.4**	**32.3**	**25.5**
SYNTHETIC (NONCELLULOSIC)							
YARN+MONOFILAMENTS							
NYLON - INDUSTRIAL[c]	27.4	25.5	30.8	20.9	22.3	31.1	24.4
- CARPET	63.0	46.4	54.7	65.4	57.3	63.8	57.8
- TEXTILE	50.3	47.8	47.3	49.9	45.7	57.5	45.8
POLYESTER - INDUSTRIAL[c]	22.1	24.2	29.4	27.8	35.0	36.8	36.5
- TEXTILE [d]	77.4	83.7	81.5	81.5	70.9	108.9	83.3
OLEFIN [e]	61.5	64.9	62.9	52.9	57.4	66.1	56.1
TOTAL YARN	**301.7**	**292.5**	**306.6**	**298.4**	**288.6**	**364.2**	**303.9**
STAPLE+TOW+FIBERFILL							
NYLON	78.6	62.7	62.8	69.7	47.5	49.8	64.7
ACRYLIC+MODACRYLIC	77.4	64.4	66.2	63.3	61.2	66.5	71.7
POLYESTER	173.5	155.0	163.9	156.5	159.4	189.9	181.1
OLEFIN [f]	23.2	29.7	33.5	30.1	30.3	34.6	29.5
TOTAL STAPLE	**352.7**	**311.8**	**326.4**	**319.6**	**298.4**	**340.8**	**347.0**
TOTAL SYNTHETIC (NONCELL.)	**654.4**	**604.3**	**633.0**	**618.0**	**587.0**	**705.0**	**650.9**
TOTAL MANUFACTURED FIBER	**695.3**	**639.1**	**670.2**	**652.9**	**612.4**	**737.3**	**676.4**

a. The annual production of each fiber may be calculated as total shipments plus a stock increase or less a stock decrease from the previous year.
b. Producers' total domestic shipments plus export shipments.
c. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.
d. Includes low denier industrial yarn.
e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.
f. Includes Vinyon until 1987.

TABLE 15:
SELECTED U.S. MONTHLY FIBER DATA

MILLION POUNDS

ITEM	1990 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE[a] 1990	1989
MANUFACTURED FIBER TOTAL SHIPMENTS[b,c]														
ARTIFICIAL (CELLULOSIC)														
YARN	15.1	15.4	17.4	18.1	17.4	16.9	19.1	17.3	17.6	19.3	15.3	17.8	206.7	219.0
RAYON STAPLE	30.1	25.3	26.3	28.2	25.1	22.6	24.8	25.0	25.3	28.5	22.3	19.1	302.6	354.4
TOTAL ARTIFICIAL (CELLULOSIC)	45.2	40.7	43.7	46.3	42.5	39.5	43.9	42.3	42.9	47.8	37.6	36.9	509.3	573.4
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	24.9	30.3	28.4	28.4	28.8	27.6	24.9	30.6	32.5	28.5	30.0	26.3	341.2	364.5
- CARPET	86.5	81.1	82.2	85.6	80.1	75.8	71.8	88.4	80.7	86.0	83.8	84.0	986.0	967.7
- TEXTILE	28.9	28.2	29.9	32.0	32.0	31.3	29.0	31.0	31.9	32.7	32.3	29.9	369.1	399.9
POLYESTER - INDUSTRIAL[d]	27.2	28.6	31.8	32.9	30.1	30.2	28.1	29.4	28.3	32.7	30.1	31.9	361.3	365.3
- TEXTILE[f]	56.6	56.2	58.0	69.8	68.4	61.4	59.2	68.9	65.2	66.3	66.0	72.3	768.3	804.0
OLEFIN[e]	107.2	116.5	116.7	124.2	124.5	122.2	113.3	124.1	124.7	123.8	117.0	106.3	1420.5	1248.5
TOTAL YARN	331.3	340.9	347.0	372.9	363.9	348.5	326.3	372.4	363.3	370.0	359.2	350.7	4246.4	4149.9
STAPLE+TOW+FIBERFILL														
NYLON	88.8	74.9	86.0	85.0	87.0	77.6	72.2	87.7	81.9	89.1	80.9	63.3	974.4	978.5
ACRYLIC+MODACRYLIC	40.4	39.7	43.2	39.7	43.0	43.8	38.6	45.5	42.1	40.1	39.5	45.0	500.6	537.4
POLYESTER	168.9	175.7	173.3	182.2	176.2	167.6	156.4	178.5	178.4	206.7	179.8	154.4	2098.1	2354.8
OLEFIN	30.3	34.4	35.3	35.1	36.0	37.1	31.5	36.9	34.7	34.4	33.5	31.1	410.3	377.4
TOTAL STAPLE	328.4	324.7	337.8	342.0	342.2	326.1	298.7	348.6	337.1	370.3	333.7	293.8	3983.4	4248.1
TOTAL SYNTHETIC (NONCELLULOSIC)	659.7	665.6	684.8	714.9	706.1	674.6	625.0	721.0	700.4	740.3	692.9	644.5	8229.8	8398.0
TOTAL MANUFACTURED FIBER	704.9	706.3	728.5	761.2	748.6	714.1	668.9	763.3	743.3	788.1	730.5	681.4	8739.1	8971.4
MANUFACTURED FIBER END-OF-MONTH STOCK														
ARTIFICIAL (CELLULOSIC)														
YARN	9.7	9.9	8.8	9.1	7.6	8.7	8.9	8.3	8.3	8.6	8.6	9.4	9.4	9.9
RAYON STAPLE	20.2	17.2	14.0	14.2	11.9	10.1	12.4	10.6	9.2	8.8	10.7	16.1	16.1	22.4
TOTAL ARTIFICIAL (CELLULOSIC)	29.9	27.1	22.8	23.3	19.5	18.8	21.3	18.9	17.5	17.4	19.3	25.5	25.5	32.3
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	36.8	33.7	33.4	36.0	30.1	35.7	42.2	36.9	34.6	30.4	25.1	24.4	24.4	31.1
- CARPET	60.5	61.2	62.6	63.2	65.4	78.2	82.3	70.2	71.7	75.8	83.5	57.8	57.8	63.8
- TEXTILE[f]	57.0	59.9	64.3	63.5	63.5	62.9	62.1	60.2	57.9	50.9	47.7	45.8	45.8	57.5
POLYESTER - INDUSTRIAL[d]	39.3	40.6	39.5	39.2	37.9	35.8	35.6	35.5	38.7	38.1	35.4	36.5	36.5	36.8
- TEXTILE[f]	94.5	104.9	109.9	106.4	99.7	100.8	100.2	91.5	86.5	90.1	89.7	83.3	83.3	108.9
OLEFIN[e]	68.1	66.6	65.4	63.3	63.2	61.2	59.5	58.6	58.6	57.3	57.2	56.1	56.1	66.1
TOTAL YARN	356.2	366.9	375.1	371.6	359.8	374.6	381.9	352.9	348.0	342.6	338.6	303.9	303.9	364.2
STAPLE+TOW+FIBERFILL														
NYLON	40.1	40.5	37.1	44.3	47.7	60.5	65.3	59.6	61.5	59.4	57.2	64.7	64.7	49.8
ACRYLIC+MODACRYLIC	69.5	70.9	72.8	75.3	78.9	83.2	87.0	86.3	86.0	81.2	80.2	71.7	71.7	66.5
POLYESTER	193.5	195.1	192.9	217.4	210.8	212.4	216.8	197.1	187.0	171.6	166.1	181.1	181.1	189.9
OLEFIN	34.6	33.4	31.5	29.8	28.5	28.6	29.8	29.6	28.3	28.3	28.3	29.5	29.5	34.6
TOTAL STAPLE	337.7	339.9	334.3	366.8	365.9	384.7	398.9	372.6	362.8	340.5	331.8	347.0	347.0	340.8
TOTAL SYNTHETIC (NONCELLULOSIC)	693.9	706.8	709.4	738.4	725.7	759.3	780.8	725.5	710.8	683.1	670.4	650.9	650.9	705.0
TOTAL MANUFACTURED FIBER	723.8	733.9	732.2	761.7	745.2	778.1	802.1	744.4	728.3	700.5	689.7	676.4	676.4	737.3
COTTON CONSUMPTION														
RAW COTTON	317.3	332.1	365.9	327.8	336.8	381.0	293.7	289.4	380.2	351.7	321.9		3697.8	3675.2

	WOOL CONSUMPTION[g] 1ST QUARTER	2ND QUARTER	3RD QUARTER	4TH QUARTER	YEAR TO DATE 1990	1989
APPAREL CLASS WOOL	31.7	32.4	27.9		92.0	99.2
CARPET CLASS WOOL	3.8	2.9	4.1		10.8	11.1
TOTAL RAW WOOL	35.5	35.3	32.0		102.8	110.3

a. "Year to date" totals for stock, are the latest month's figures.
b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.
c. Producers' total domestic shipments plus export shipments.
d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.
e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.
f. Includes low denier industrial yarn.
g. **Wool data for 1990 available on a quarterly basis only.**

DATA POWER

Improve your sales and profits by learning more about what is happening to the size of the markets which you serve. What are the trends in industry shipments, capacity and inventory levels? Which end use markets are growing and which are shrinking? Compare your own figures with industry data to see whether you are gaining or losing share in your markets. That's what we mean by Data Power.

There is only one official and authoritative source for manufactured fiber data in the United States. That's the **Manufactured Fiber Handbook**. No other publication anywhere provides industry data compiled directly from confidential reports submitted by the fiber producers themselves.

You get complete coverage of this key U.S. industry: capacity, production, inventory, import and export data, provided by fiber type and updated monthly, quarterly and annually.

The **Manufactured Fiber Handbook...**the **complete** official source for the manufactured fiber industry. Examine the listing below and you'll see how Data Power can work for you.

All Synthetic (Noncellulosic) And Artificial (Cellulosic) Fibers Are Covered:

- Rayon Staple
- Cellulosic Yarn
- Nylon
- Polyester
- Acrylic+Modacrylic
- Olefin

With Additional Data for:

- Glass Fiber
- Olefin Yarn, Monofilament & Film Fiber
- Civil Engineering Fabric

Comprehensive Yarn-And-Monofilament, Staple-And-Tow Data:

Monthly

- Production
- Domestic Shipments
- Exports
- Inventories
- Industrial Yarn
- Carpet Yarn
- Textile Yarn
- Flat Yarn
- Feed & Producer Textured Yarn
- Shipments by Denier
- Indirect Exports

Quarterly

- Production
- Domestic Shipments
- Imports
- Exports
- Shipments by Denier
- Inventories
- Primary End Use
- Secondary End Use
- Waste Shipments
- Civil Engineering Fabric Shipments

Semiannually & Annually

- Capacities
- Primary End Use Summaries
- Secondary End Use Summaries
- Waste Shipment Summaries
- Imports
- Exports
- Glass Fiber Shipments by State

MANUFACTURED FIBER HANDBOOK

Formerly MAN-MADE FIBER PRODUCERS' HANDBOOK